AMENDMENTS

In the Claims:

Please amend the claims as follows:

1. (Twice amended) A composition comprising a pair of probes, said pair comprising a first and second nucleic acid probe, said first probe capable of hybridizing with an ABL nucleic acid flanking sequence, said ABL nucleic acid flanking sequence defined as a region beginning at ABL exon II and extending approximately 200 kb beyond the last ABL exon, and said second probe capable of hybridizing with a BCR nucleic acid flanking sequence, said BCR nucleic acid flanking sequence defined as a region beginning at the first exon of the major breakpoint cluster region of BCR and extending approximately 200 kb beyond BCR exon I, said flanking sequences brought together by a chromosomal aberration.

2. (Twice amended) The composition of claim 1 wherein **[the probes are labeled]** said first probe is capable of hybridizing with at least part of an exon in the portion of the ABL gene flanked by and including ABL exon II and the last ABL exon, and said second probe is capable of hybridizing with at least part of an exon in the portion of the BCR gene flanked by and including BCR exon I and the first exon of the major breakpoint cluster region.

3. (Twice amended) The composition of claim **[2]** 1 wherein the probes are labeled and each probe label is distinct from each other.

4. (Twice amended) The composition of claim 3 wherein the probes hybridize to sequences that are **[at least]** located within approximately 800 kb of each other [apart] in the aberrant chromosome .

11. (Twice amended) The composition of claim **[10 wherein the chromosomal aberration is further defined as comprising a translocation]** 2 wherein said first probe is capable of hybridizing to at least a portion of the last exon of the ABL gene and said second probe is capable of hybridizing to at least a portion of exon I of the BCR gene.

12. (Twice amended) The composition of claim **[11 wherein the translocation is]** 10 wherein the chromosomal aberration is further defined as comprising a translocation, said translocation formed by breakpoints which occur on the long arms of human chromosomes **[No.]** 9 and **[No.]** 22.

15. (Twice amended) The composition of claim 14 wherein the fusion gene encodes a protein **[designated as]** p190.

16. (Twice amended) The composition of claim 10 wherein the probes consist of those selected from probes **[designated]** PEM12, c-H-abl and MSB-1.

22. (Amended) A genetic probe capable of hybridizing to the first exon **[region]** of the BCR gene as illustrated in FIG. 2A.